1 Which of the following Java operators can be used with b	oolean
variables? (Choose all that apply.)	

Respuestas:

- ==
- •
- Cast with (boolean)
- 2.- What data type (or types) will allow the following code snippet to compile? (Choose all that apply.)

```
byte apples = 5;
short oranges = 10;
_____ bananas = apples + oranges;
```

Respuestas:

- int
- long
- double
- 3.- What change, when applied independently, would allow the following code snippet to compile? (Choose all that apply.)

```
long ear = 10;
int hearing = 2 * ear;
```

Respuestas:

- Cast ear on line 4 to int.
- Change the data type of ear on line 3 to short.
- Change the data type of hearing on line 4 to long.

4.- What is the output of the following program?

```
    public class CandyCounter {
    static long addCandy(double fruit, float vegetables) {
    return (int)fruit+vegetables;
    }
    public static void main(String[] args) {
    System.out.print(addCandy(1.4, 2.4f) + "-");
    System.out.print(addCandy(1.9, (float)4) + "-");
    System.out.print(addCandy((long)(int) (short)2, (float)4)); } }
```

Respuestas:

• The code does not compile because of line 9.

5. What are the unique outputs of the following code snippet? (Choose all that apply.)

```
int a = 2, b = 4, c = 2;
System.out.println(a > 2 ? --c : b++);
System.out.println(b = (a!=c ? a : b++));
System.out.println(a > b ? b < c ? b : 2 : 1);</pre>
```

Respuestas:

- 1
- 4
- 5

6. Given the following code snippet, what is the value of the variables after it is executed? (Choose all that apply.)

```
int ticketsTaken = 1; int
ticketsSold = 3;
ticketsSold += 1 + ticketsTaken++; ticketsTaken *= 2;
ticketsSold += (long)1;
```

Respuestas:

- ticketsSold is 6
- ticketsTaken is 4
- 7. What is the output of the following code snippet? (Choose all that apply.)

```
3: int temperature = 4;
4: long humidity = -temperature + temperature * 3;
5: if (temperature>=4)
6: if (humidity < 6) System.out.println("Too Low");</li>
7: else System.out.println("Just Right");
8: else System.out.println("Too High");
```

Respuestas:

Just Right

8. Which statements, when inserted independently into the following blank, will cause the code to print 2 at runtime? (Choose all that apply.)

Respuestas:

break

9. What is the output of the following code snippet?

```
2: boolean keepGoing = true;
3: int result = 15, meters = 10;
4: do {
5: meters--;
6: if(meters==8) keepGoing = false;
7: result -= 2;
8: } while keepGoing;
9: System.out.println(result);
```

Respuestas:

• The code does not compile for a different reason.

10. What is the output of the following code snippet? (Choose all that apply.)

```
9: int w = 0, r = 1;
10: String name = "";
11: while(w < 2) {
        name += "A";
12:
13:
        do {
                name += "B";
14:
15:
                      if(name.length()>0) name += "C";
16:
                else break;
17:
       } while (r <=1);
       r++; w++; }
18:
       System.out.println(name);
19:
```

Respuestas:

• The code compiles but never terminates at runtime.

11. What is output by the following code? (Choose all that apply.)

```
1: public class Fish {
2: public static void main(String[] args) {
3: int numFish = 4;
4: String fishType = "tuna";
5: String anotherFish = numFish + 1;
6: System.out.println(anotherFish + " " + fishType);
7: System.out.println(numFish + " " + 1);
8: }}
```

Respuestas:

1. 41

2. 5 tuna

12. What is the result of the following code?

```
7: StringBuilder sb = new StringBuilder();
8: sb.append("aaa").insert(1, "bb").insert(4, "ccc");
9: System.out.println(sb);
```

Respuestas:

abbaccca

13. What is the result of the following code?

```
12: int count = 0;
13: String s1 = "java";
14: String s2 = "java";
15: StringBuilder s3 = new StringBuilder("java");
16: if (s1 == s2) count++;
17: if (s1.equals(s2)) count++;
18: if (s1 == s3) count++;
19: if (s1.equals(s3)) count++;
```

Respuestas:

The code does not compile.

14. What is the result of the following code?

Respuestas:

roar roar!!!

15. Which of the following can replace line 4 to print "avaJ"? (Choose all that apply.)

```
3: var puzzle = new StringBuilder("Java");4: // INSERT CODE HERE5: System.out.println(puzzle);
```

Respuestas:

- puzzle.reverse();
- puzzle.append("vaJ\$").delete(0, 3).deleteCharAt(puzzle.length() 1);